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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

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Complete if Known

Application Number	10/705,517
Filing Date	December 15, 1998
First Named Inventor	DAVID A. FERRERA, et al.
Group Art Unit	3731
Examiner Name	J. Goldberg
Attorney Docket Number	MICRU-49656

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document No.		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class/Sub		Pages, Columns, Lines, Where Relevant Paragraphs or Relevant Figures Appear
		Number	Kind Code (if Known)					
JJ		3,452,742		W.F. Muller	07-01-1969			
		4,553,545		Maass et al.	11-19-1985			
		4,950,258		Kawai et al.	08-21-1990			
		4,994,069		Ritchart, et al.	02-19-1991			
		5,139,243		Balsells	08-18-1992			
		5,234,437		Sepetka	08-10-1993			
		5,256,146		Ensminger et al.	10-26-1993			
		5,261,916		Engelson	11-16-1993			
		5,304,195		Twyford, Jr. et al.	04-19-1994			
		5,312,356		Engelson et al.	05-17-1994			
		5,334,210		Gianturco	08-02-1994			
		5,380,304		Parker	01-10-1995			
		5,417,708		Hall et al.	05-23-1995			
		5,421,338		Crowley et al.	06-06-1995			
		5,437,282		Koger et al.	08-01-1995			
		5,522,822		Phelps et al.	06-04-1996			
JJ		5,527,338		Purdy	06-18-1996			
		5,536,274		Neuss	07-16-1996			

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		Office	Number	Kind Code (if Known)				
JJ		DE	32 03 410 A1		VEB Kombinat	11-25-1982		
		WO	94/10936		Target Therapeutics, Inc.	05-26-1994		
		WO	94/16629		Instent Inc.	08-04-1994		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T
JD		Y. PIERRE GOBIN, M.D., ET AL., "TREATMENT OF LARGE AND GIANT FUSIFORM INTRACRANIAL ANEURYSMS WITH GUGLIELMI DETACHABLE COILS," J. NEUROSURG., JANUARY 1996, PAGES 55-62, VOLUME 84	
JD		CAMERON G. MCDUGALL, M.D., ET AL., "ENDOVASCULAR TREATMENT OF BASILAR TIP ANEURYSMS USING ELECTROLYTICALLY DETACHABLE COILS," J. NEUROSURG., MARCH 1996, PAGES 393-399, VOLUME 84	
Examiner Signature	JACKSON, GARY		Date Considered 01-16-01 / Oct. 31, 04

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		Number	Kind Code (if Known)				
DJ		5,540,680		Guglielmi et al.	07-30-1996		
		5,562,698		Parker	10-08-1996		
		5,601,600		Ton	02-11-1997		
		5,624,449		Pham et al.	04-29-1997		
		5,645,082		Sung et al.	07-08-1997		
		5,645,558		Horton	07-08-1997		
		5,649,949		Wallace, et al.	07-22-1997		
		5,669,905		Scheldrup et al.	09-23-1997		
		5,669,931		Kupiecki et al.	09-23-1997		
		5,690,667		Gia	11-25-1997		
		5,693,067		Purdy	12-02-1997		
		5,700,258		Mirigian et al.	12-23-1997		
		5,718,711		Berenstein et al.	02-17-1998		
		5,725,546		Samson	03-10-1998		
		5,733,329		Wallace et al.	03-31-1998		
		5,743,905		Eder et al.	04-28-1998		
DJ		5,746,769		Ton et al.	05-05-1998		
		5,749,891		Ken et al.	05-12-1998		

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		Office	Number	Kind Code (if Known)					
DJ		wo	95/18585		Microfil Industry S.A.	07-13-1995			
		EP	0 747 012 A1		Target Therapeutics, Inc.	11-12-96			
		EP	0 747 014 A1		Target Therapeutics, Inc.	11-12-1996			
		DE	197 04 269 A1		pfm Produkte	11-20-1997			

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Signature

JACKSON, GARY

Date
Considered

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Attorney Docket Number

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U.S. PATENT DOCUMENTS

Class by

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		Office	Number	Kind Code (if Known)				
<i>JS</i>		WO	97/48351		Medical University of S.C.	12-24-1997		
<i>JS</i>		EP	0 820 726 A2		Target Therapeutics, Inc.	01-28-1998		
<i>JS</i>		WO	99/07294		Target Therapeutics, Inc.	02-18-1999		
<i>JS</i>		WO	99/29260		Micrus Corporation	06-17-1999		

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**Examiner
Signature**

JACKSON, GARY

Date Considered

~~Oct 16, 09~~ Oct. 31, 09

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360 U.S. PTO

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MICRU:49656	SERIAL NO. 10/705,517			
INFORMATION DISCLOSURE CITATION (Use Several Sheets If Necessary)		APPLICANT DAVID A. FERRERA, ET AL.				
		FILING DATE December 15, 1998	GROUP 3731 606/191			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL. ASS	SUB CLASS	FILING DATE IF APPLICABLE
JAG	5,336,205	AUGUST 9, 1994	ZENZEN ET AL.			
	5,350,397	SEPTEMBER 27, 1994	PALERMO ET AL.			
	5,354,295	OCTOBER 11, 1994	GUGLIELMI ET AL.			
	5,312,415	MAY 17, 1994	PALERMO			
	5,639,277	JUNE 17, 1997	MARIANT ET AL.			
	5,649,949	JULY 22, 1997	WALLACE ET AL.			
	5,222,969	JUNE 29, 1993	GILLIS			
	5,607,445	MARCH 4, 1997	SUMMERS			
	5,667,522	SEPTEMBER 16, 1997	FLOMENBLIT ET AL.			
	5,514,176	MAY 7, 1996	BOSLEY, JR.			
JAG	5,582,619	DECEMBER 10, 1996	KEN			
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	DOCUMENT NUMBER	DATE	COUNTRY	CL. ASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
REFERENCES JAG	SADEK K. HILAL, M.D. ET AL. JOURNAL OF NEUROLOGICAL SURGERY "THERAPEUTIC PERCUTANEOUS EMBOLIZATION FOR EXTRA-AXIAL VASCULAR LESIONS OF THE HEAD, NECK AND SPINE" SEPTEMBER, 1975; PAGES 275 - 287.					
JAG	STEPHEN L. KAUFMAN, M.D. ET AL. INVESTIGATIVE RADIOLOGY, MAY-JUNE 1978 "TRANSCATHETER EMBOLIZATION WITH MICROFIBRILLAR COLLAGEN IN SWINE"; PAGES 200-204					
JAG	ASHOK J. KUMAR, ET AL., JOURNAL OF NEURORADIOLOGY (1982) "PREOPERATIVE EMBOLIZATION OF HYPERVASCULAR HEAD AND NECK NEOPLASMS USING MICROFIBRILLAR COLLAGEN". PAGES 163 - 168.					
JAG	RICHARD E. LATCHAW, M.D. ET AL., RADIOLOGY (1979) "POLYVINYL FOAM EMBOLIZATION OF VASCULAR AND NEOPLASTIC LESIONS OF THE HEAD, NECK AND SPINE" PAGES 669 - 671					
JAG	STEWART R. REUTER, M.D. ET AL. AMERICAN JOURNAL OF RADIOLOGY, SEPTEMBER 1975 "SELECTIVE ARTERIAL EMBOLIZATION FOR CONTROL OF MASSIVE UPPER GASTROINTESTINAL BLEEDING" PAGES 119 - 126.					
EXAMINER	Jonathan D. Goldberg			DATE CONSIDERED		
				12/31/99 Oct. 31, 2004		
EXAMINER Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with re: communication with applicant.						

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Form PTO-FB-A820
(also form PTO-1449)

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U.S. PTO

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MICRU:49656	SERIAL NO. 10/705,517
INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)		APPLICANT DAVID A. FERRERA, ET AL.	
FILING DATE December 15, 1998		GROUP 3731 606/191	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
JRG	5,562,641	OCTOBER 8, 1996	FLOMENBLIT ET AL.			
	5,549,624	AUGUST 27, 1996	MIRIGIAN ET AL.			
	4,994,069	FEBRUARY 19, 1991	RITCHART ET AL.			
	5,226,911	JULY 13, 1993	CHEE ET AL.			
	5,690,666	NOVEMBER 25, 1997	BERENSTEIN ET AL.			
	5,522,836	JUNE 4, 1996	PALERMO			
	5,569,245	OCTOBER 29, 1996	GUGLIELMI ET AL.			
	4,768,507	SEPTEMBER 6, 1988	FISCHELL ET AL.			
	4,795,458	JANUARY 3, 1989	REGAN			
	4,800,882	JANUARY 31, 1989	GIANTURCO			
JRG	4,813,925	MARCH 21, 1989	ANDERSON, JR. ET AL.			

FOREIGN PATENT DOCUMENTS						
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
JRG	GLENN H. ROBERSON, ET AL., AMERICAN JOURNAL OF RADIOLOGY, OCTOBER 1979 "THERAPEUTIC EMBOLIZATION OF JUVENILE ANGIOFIBROMA" PAGES 657 -663
JRG	SIDNEY WALLACE, M.D. ET AL., CANCER, OCTOBER 1979 "ARTERIAL OCCLUSION OF PELVIC BONE TUMORS"; PAGES 322-325 & 661-663
ARTICLES JRG JRG	"MECHANICAL DEVICES FOR ARTERIAL OCCLUSION" BY C. GIANTURCO, M.D., ET AL., JULY 1979 PAGES 428 - 435
JRG JRG	"THERAPEUTIC VASCULAR OCCLUSION UTILIZING STEEL COIL TECHNIQUE: CLINICAL APPLICATIONS" BY SIDNEY WALLACE, ET AL., AM J. ROENTGENOL (1976); PAGES 381-387
JRG JRG	"TRANSCATHETER INTRAVASCULAR COIL OCCLUSION OF EXPERIMENTAL ARTERIOVENOUS FISTULAS", BY JAMES H. ANDERSON, ET AL., AM. J. ROENTGENOL, NOVEMBER 1977, PAGES 795 -798.

EXAMINER <i>Jonathan D. Goldberg JRG</i>	DATE CONSIDERED <i>Oct. 31, 2009</i>
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EXAMINER Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with communication with applicant.

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U.S. PTO

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Sheet 4

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MICRU:49656	SERIAL NO. 10/705,517 09-11-93
INFORMATION DISCLOSURE CITATION <small>(Use Several Sheets if Necessary)</small>		APPLICANT DAVID A. FERRERA, ET AL.	
FILING DATE December 15, 1998		GROUP 3731 606/191	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL ASS	SUB CLASS	FILING DATE IF APPLICABLE
<i>JDG</i> <div style="border-left: 1px solid black; height: 100px; margin: 0 auto; width: 20px;"></div>	4,856,516	AUGUST 15, 1989	HILLSTEAD			
	4,957,479	SEPTEMBER 18, 1990	ROEMER			
	4,990,155	FEBRUARY 5, 1991	WILKOFF			
	5,041,084	AUGUST 20, 1991	DeVRIES ET AL.			
	5,133,732	JULY 28, 1992	WIKTOR			
	5,141,502	AUGUST 25, 1992	MACALUSO, JR.			
	5,147,370	SEPTEMBER 15, 1992	McNAMARA ET AL.			
	5,160,341	NOVEMBER 3, 1992	BRENNEMAN ET AL.			
	5,176,625	JANUARY 5, 1993	BRISSON			
	5,183,085	FEBRUARY 2, 1993	TIMMERMANS			
<i>JDG</i>	5,690,643	NOVEMBER 25, 1997	WIJAY			

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DOCUMENT NUMBER	DATE	COUNTRY	CL ASS	SUB CLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
ARTICLES <i>JDG</i> <i>JDG</i>	" 'MINI' GIANTURCO STAINLESS STEEL COILS FOR TRANSCATHETER VASCULAR OCCLUSION" JAMES H. ANDERSON, ET AL., FROM THE DEPARTMENT OF DIAGNOSTIC RADIOLOGY AT THE UNIVERSITY OF TEXAS SYSTEM CANCER CENTER, AUGUST 1978, PAGES 301 - 303. "A NEW IMPROVED COIL FOR TAPERED-TIP CATHETER FOR ARTERIAL OCCLUSION" BY VINCE P. CHUANG, M.D., ET AL., MAY 1980, PAGES 507 - 509 "NEUROSURGERY INTERACTIVE ARTICLE PART 2 - CLINICAL STUDIES EMBOLIZATION OF CEREBRAL ARTERIOVENOUS MALFORMATIONS: PART II-ASPECTS OF COMPLICATIONS AND LATE OUTCOME" BY CHRISTER LUNQVIST, M.D., PH.D., ET AL., SEPTEMBER 96, PAGES 1-16 "SHAPE MEMORY ALLOYS" BY JEFF PERKINS, PAGES 1095-1096

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MICRU:49656	SERIAL NO. <u>10/705,517</u> 00/000,000			
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JOG	5,624,461	APRIL 29, 1997	MARIANT			
	5,637,113	JUNE 10, 1997	TARTAGLIA ET AL.			
	5,639,277	JUNE 17, 1997	MARIANT ET AL.			
	5,643,254	JULY 1, 1997	SCHELDRUP ET AL.			
	5,676,697	OCTOBER 14, 1997	MCDONALD			
	5,234,456	AUGUST 10, 1993	SILVESTRINI			
	5,304,194	APRIL 19, 1994	CHEE ET AL.			
	5,342,387	AUGUST 30, 1994	SUMMERS			
	5,382,259	JANUARY 17, 1995	PHELPS ET AL.			
	5,441,516	AUGUST 15, 1995	WANG ET AL.			
JOG	5,443,478	AUGUST 22, 1995	PURDY			
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	<p>APPLICANT DAVID A. FERRERA, ET AL.</p>	
	<p>FILING DATE December 15, 1998</p>	<p>GROUP 5731 606/191</p>

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<i>JOG</i>	4,820,298	APRIL 11, 1989	LEVEEN ET AL.			
	4,850,960	JULY 25, 1989	GRAYZEL			
	4,954,126	SEPTEMBER 4, 1990	WALLSTEN			
	4,957,501	SEPTEMBER 18, 1990	LAHILLE ET AL			
	5,064,435	NOVEMBER 12, 1991	PORTER			
	5,104,404	APRIL 14, 1992	WOLFF			
	5,133,731	JULY 28, 1992	BUTLER ET AL.			
	5,147,370	SEPTEMBER 15, 1992	McNAMARA ET AL.			
	5,151,105	SEPTEMBER 29, 1992	KWAN-GETT			
<i>JOG</i>	5,176,661	JANUARY 5, 1993	EVARD ET AL.			
	5,186,992	FEBRUARY 16, 1993	KITE, III			

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	APPLICANT DAVID A. FERRERA, ET AL.	
	FILING DATE DECEMBER 15, 1998	GROUP 3731

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
<i>JDG</i>	5,690,671	NOVEMBER 25, 1997	MCGURK, ET AL.			

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						YES	NO

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	APPLICANT DAVID A. FERRERA, ET AL.	
	FILING DATE December 15, 1998	GROUP 3731 606/191

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
JOG	3,868,956	MARCH 4, 1975	ALFIDI ET AL.			
	4,494,531	JANUARY 22, 1985	GIANTURCO			
	4,512,338	APRIL 23, 1985	BALKO ET AL.			
	4,748,986	JUNE 7, 1988	MORRISON ET AL.			
	4,994,069	FEBRUARY 19, 1991	RITCHART ET AL.			
	5,026,377	JUNE 25, 1991	BURTON ET AL.			
	5,108,407	APRIL 28, 1992	GEREMIA ET AL.			
	5,122,136	JUNE 16, 1992	GUGLIELMI ET AL.			
	5,217,484	JUNE 8, 1993	MARKS			
	5,228,453	JULY 20, 1993	SEPETKA			
JOG	5,250,071	OCTOBER 5, 1993	PALERMO			

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						YES	N
	DE 4102550 A1	08/08/1991	GERMANY				
JOG	UK 2 066 839 A	15 JULY 1981	UNITED KINGDOM				
JOG	EP 0 183372 A1	04.06.86	EUROPE				
JOG	EP 0 382014 A1	16.08.90	EUROPE				
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REFERENCES JOG JOG	CHRISTOS A. ATHANASOULIS, M.D. THE NEW ENGLAND JOURNAL OF MEDICINE, MAY 15, 1980 "THERAPEUTIC APPLICATIONS OF ANGIOGRAPHY" PAGES 1117 - 1125 (1 OF 2)
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JOG JOG	ALEX BERENSTEIN, M.D. AND IRVIN I. KRICHEFF, M.D. "CATHETER AND MATERIAL SELECTION FOR TRANSARTERIAL EMBOLIZATION: TECHNICAL CONSIDERATIONS" RADIOLOGY, SEPTEMBER 1979; PAGES 631 - 639.
	O.A. BATTISTA, ET AL. JOURNAL OF APPLIED POLYMER SCIENCE 1967 "COLLOIDAL MACROMOLECULAR PHENOMENA. PART II. NOVEL MICROCRYSTALS OF POLYMERS" PA 481 - 498.

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